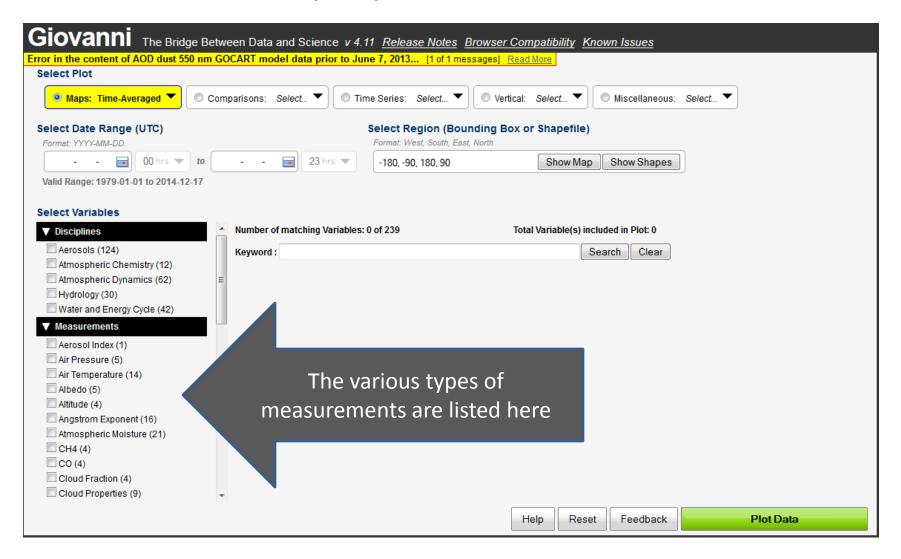# How to search for data products by measurement type with **Giovanni-4**
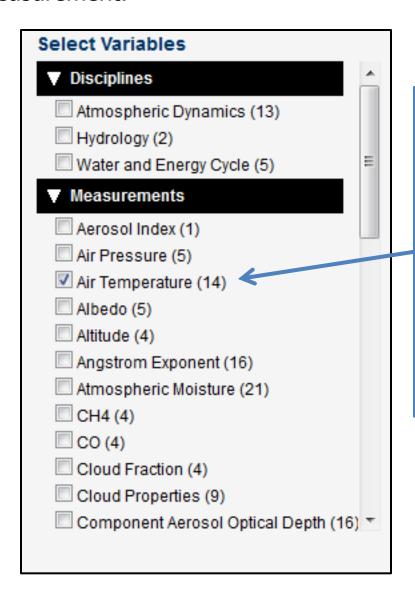
The following slides demonstrate how to search for a data product using the Giovanni-4 data measurement types

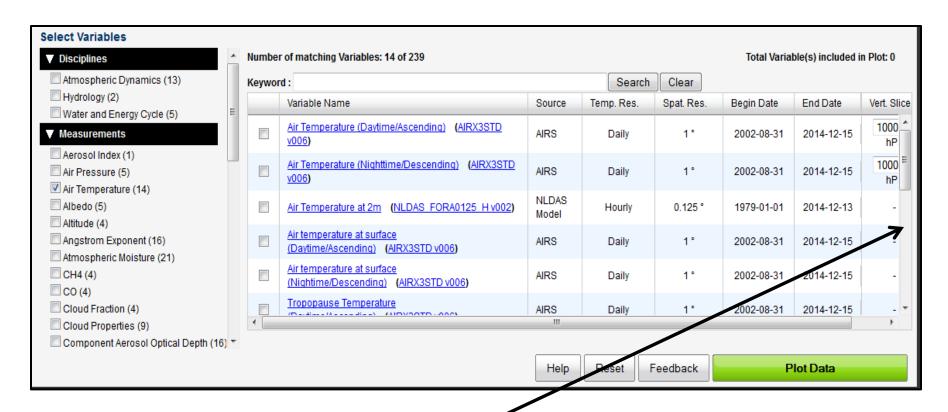# Giovanni-4 interface, with no plot options selected

Different types of measurements can be made for the same component of the Earth system, such as clouds or air temperature.

To select a measurement type, simply click on the box next to the name of the measurement.

For this example, **"Air Temperature"** has been selected. The number '14' in parentheses indicates that there are 14 different data variables available for this measurement type.
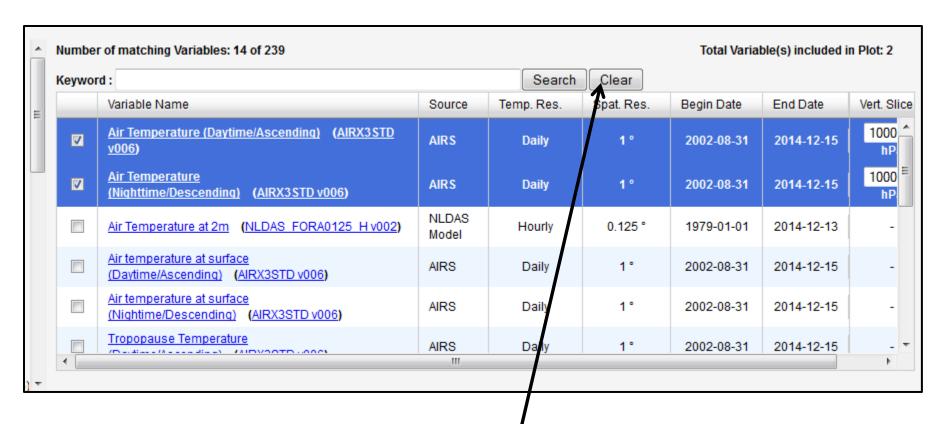
More than one measurement type can be selected. All of the data variables will be listed. This feature allows different data variables to be plotted at the same time.

Here are the results of the search for data variables by measurement type, after selecting the "Air Temperature" measurement.

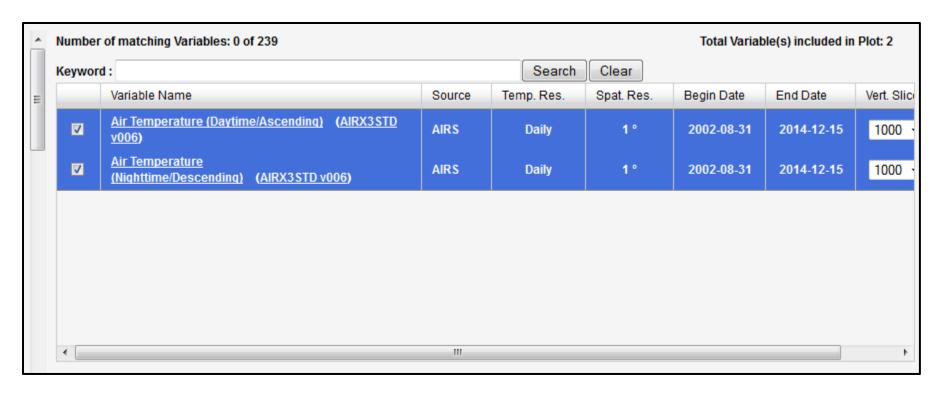Scroll down to see the all of the data variables.

The next step is to select the desired data variables.

For this example, the two Atmospheric Infrared Sounder (AIRS) Daily Air Temperature variables are selected.
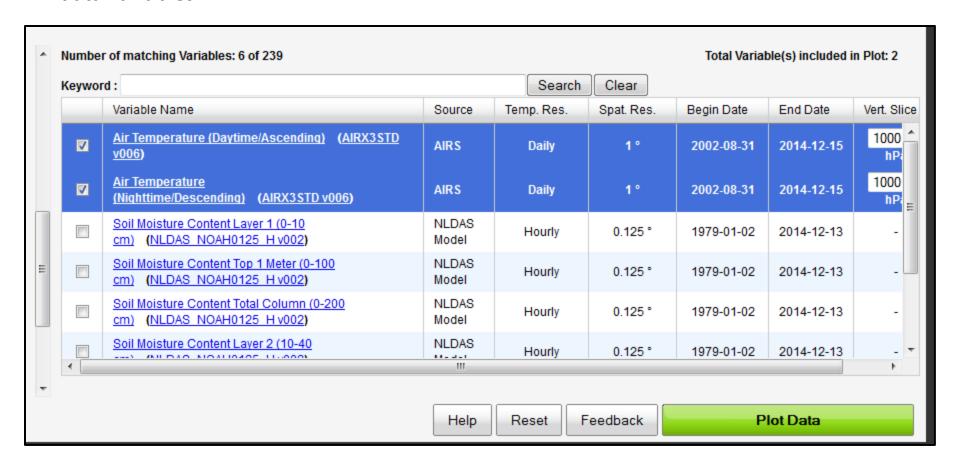

Then click on the "Clear" button.

Here are the results after clicking the "Clear" button. Only the selected data variables are displayed.

Number of matching Variables: 0 of 239							Total Variable(s) included in Plot: 2	
Keyword :					Search	Clear		
	Variable Name	Source	Temp. Res.	Spat. Res.	Begin Date	End Date	Vert. Slice	
☑	Air Temperature (Daytime/Ascending) (AIRX3STD v006)	AIRS	Daily	1 °	2002-08-31	2014-12-15	1000
☑	Air Temperature (Nighttime/Descending) (AIRX3STD v006)	AIRS	Daily	1 °	2002-08-31	2014-12-15	1000

It is then possible to go back to the measurement type menu and select a different measurement, and add those variables to the list.

In this case, the **"Soil Moisture"** measurement type was selected. The list of Soil Moisture data variables is now shown below the selected AIRS air temperature data variables.

This process can continue until all of the desired data variables have been selected. They can all be plotted with one click on the "Plot Data" button.

End
of
demonstration